

Log Data Report

Log Event A

1 of 2

**Page** 

**Borehole** 

RUST GEOTECH INC.

60-02-01

### **Borehole Information**

Site Number: Farm: U Tank: U-102 299-W18-137

TOC Elevation: 665.59 W-Coord: N-Coord: 75,717 38,224

Water Level, ft: Date Drilled: 4/30/1974

**Casing Record** 

Type: Steel-welded Thickness: 0.280 ID, in.: 6

Top Depth, ft.: Bottom Depth, ft.: 125 0

**Borehole Notes:** 

According to the driller's records, this borehole was not perforated or grouted.

### **Equipment Information**

Logging System: 2 **Detector Efficiency:** 35.0 % **Detector Type: HPGe** Calibration Date: 03/1995 Calibration Reference : GJPO-HAN-1 Logging Procedure: P-GJPO-1783

Log Run Information

Logging Engineer: Log Run Date: Log Run Number: 10/9/1995 **Bob Spatz** 1

Start Depth, ft.: 124.0 Counting Time, sec.: 100 Shield: N L/R: L Finish Depth, ft.: 63.0 MSA Interval, ft.: 0.5 Log Speed, ft/min.:

Log Run Date : Logging Engineer: **Bob Spatz** Log Run Number: 2 10/10/1995

Start Depth, ft.: 64.0 Counting Time, sec.: 100 L/R: L Shield: N Finish Depth, ft.: 10.0 MSA Interval, ft. : <u>0.5</u> Log Speed, ft/min.: n/a

Logging Engineer: **Bob Spatz** Log Run Number: Log Run Date : 10/10/1995 3

Start Depth, ft.: Counting Time, sec.: 100 5.0 Shield: N L/R: L Finish Depth, ft.: 0.0 MSA Interval, ft.: Log Speed, ft/min.:

Logging Engineer: **Bob Spatz** Log Run Number: Log Run Date: 10/10/1995 4

Start Depth, ft.: <u>4.0</u> Counting Time, sec.: 100 L/R: L Shield: N Finish Depth, ft.: <u>11.0</u> MSA Interval, ft. : 0.5 Log Speed, ft/min.: n/a



### Spectral Gamma-Ray Borehole Log Data Report

Page 2 of 2

Log Event A

# Borehole 60-02-01

## **Analysis Information**

Analyst: S.E. Kos

Data Processing Reference : P-GJPO-1787 Analysis Date : 4/12/1996

#### **Analysis Notes:**

This borehole was logged in four log runs. The pre- and post-field verification spectra indicate that the logging system was operating properly during data collection. The energy/channel drift observed during the logging runs did not exceed the search parameters of the processing software, and multiple energy calibrations were not required to process the data.

The casing thickness is presumed to be 0.280 inch (in.), on the basis of published thickness for schedule-40, 6-in. steel casing. Casing-correction factors for a 0.25-in.-thick steel casing were applied during analysis.

Cs-137 was the only man-made radionuclide detected. It occurred from the ground surface to a depth of about 14 ft and from 30.5 to 33 ft. The maximum Cs-137 concentration of almost 2,000 pCi/g was measured at a depth of 9 ft.

Details regarding the interpretation of the data for this borehole are presented in the Tank Summary Data Report for tank U-102.

### **Log Plot Notes:**

Separate log plots show the man-made (e.g., Cs-137) and the naturally occurring radionuclides (K-40, U-238, and Th-232). The natural radionuclides can be used for lithology interpretations. The headings of the plots identify the specific gamma rays used to calculate the concentrations.

A combination plot includes both the man-made and natural radionuclides, in addition to the total gamma derived from the spectral data and the Westinghouse Hanford Company (WHC) Tank Farms gross gamma log. The gross gamma plot displays the latest available digital data from WHC with no attempt to adjust the depths to coincide with the SGLS data.

Uncertainty bars on the plots show the statistical uncertainties for the measurements as 95-percent confidence intervals. Open circles on the plots give the minimum detection level (MDL). The MDL of a radionuclide represents the lowest concentration at which positive identification of a gamma-ray peak is statistically defensible.